

ABSTRACT

A gas remover apparatus suitable for electrical substation high-voltage transformer load tap changers and similar oil-filled equipment removes potentially hazardous and destructive gases from the air-filled volume above the insulating oil bath in which the load tap changer electrical contacts are immersed. The apparatus applies a continuous supply of nitrogen to the load tap changer, and has an orifice to maintain a slight overpressure over an extreme range of climatic conditions. The substantially continuous venting of nitrogen entrains and expels contaminants such as oxygen, water, and potentially explosive breakdown products from the oil, all of which can degrade the performance of the load tap changer.